Omid Gholamalamdari

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Current position

PhD candidate, Prof. Andrew Belmont's laboratory,
Department of Cell and Developmental Biology, University of Illinois at Urbana-Champaign

Interests

Chromatin structure and function • Nuclear organization of the genome
Epigenetics of aging • Microscopy • Computational biology • Genomics

Education

2010 BSc in Biotechnology, University of Tehran, Iran
2013 MSc in Biotechnology, University of Tehran, Iran

Honors & awards

2005 Gold Medal, Iranian National Biology Olympiad
2006-2013 University of Tehran fellowship
2007 Borsellino College on Neurophysics Fellowship, ICTP, Trieste, Italy
2018 Chester and Nadine Houston Graduate Fellowship, Department of Cell & Developmental Biology, UIUC

Appointments held

2007-2008 Executive Head, Iranian Biology Olympiad, YSC, Tehran, Iran
2009-2010 Head of Biology Department, Allameh Helli Junior High School, NODET, Tehran, Iran
2008-2013 Researcher, Stem Cell Technology Research Center, Tehran, Iran
2018-2020 Training and maintenance assistant, Cell and Developmental Biology Microscope Facility, University of Illinois at Urbana-Champaign

Publications

2017 Anantharaman, A., Gholamalamdari, O., Khan, A., Yoon, J.H., Jantsch, M.F., Hartner, J.C., Gorospe, M., Prasanth, S.G., Prasanth, K.V., 2017a. RNA-editing enzymes ADAR1 and ADAR2 coordinately regulate the editing and expression of Ctn RNA. FEBS letters 591, 2890–2904. https://doi.org/10.1002/1873-3468.12795

2017 Anantharaman, A., Tripathi, V., Khan, A., Yoon, J.-H., Singh, D.K., Gholamalamdari, O., Guang, S., Ohlson, J., Wahlstedt, H., Öhman, M., Jantsch, M.F., Conrad, N.K., Ma, J., Gorospe, M., Prasanth, S.G., Prasanth, K.V., 2017b. ADAR2 regulates RNA stability by modifying access of decay-promoting RNA-binding proteins. Nucleic Acids Res 45, 4189–4201. https://doi.org/10.1093/nar/gkw1304

2017 Singh, D.K., Gholamalamdari, O., Jadaliha, M., Ling Li, X., Lin, Y.-C., Zhang, Y., Guang, S., Hashemikhabir, S., Tiwari, S., Zhu, Y.J., Khan, A., Thomas, A., Chakraborty, A., Macias, V., Balla, A.K., Bhargava, R., Janga, S.C., Ma, J., Prasanth, S.G., Lal, A., Prasanth, K.V., 2017. PSIP1/p75 promotes tumorigenicity in breast cancer cells by promoting the transcription of cell cycle genes. Carcinogenesis 38, 966–975. https://doi.org/10.1093/carcin/bgx062

2018 Jadaliha, M., Gholamalamdari, O., Tang, W., Zhang, Y., Petracovici, A., Hao, Q., Tariq, A., Kim, T.G., Holton, S.E., Singh, D.K., Li, X.L., Freier, S.M., Ambs, S., Bhargava, R., Lal, A., Prasanth, S.G., Ma, J., Prasanth, K.V., 2018. A natural antisense lncRNA controls breast cancer progression by promoting tumor suppressor gene mRNA stability. PLOS Genetics 14, e1007802. https://doi.org/10.1371/journal.pgen.1007802

2021 Zhang, L., Zhang, Y., Chen, Y., Gholamalamdari, O., Wang, Y., Ma, J., Belmont, A.S., 2021. TSA-seq reveals a largely conserved genome organization relative to nuclear speckles with small position changes tightly correlated with gene expression changes. Genome Res. 31, 251–264. https://doi.org/10.1101/gr.266239.120

Teaching

2006-2007 National Biology Olympiad, instructor, Young Scholars Club, Tehran, Iran

2006-2009 Introduction to Biology for freshmen, Allameh Helli high school, NODET, Tehran, Iran

2008-2009 Biology teacher, Allameh Helli junior high school, NODET, Tehran, Iran

2016-2018 Teaching Assistant, MCB252 “Cell Tissue and Development”, School of Molecular and Cellular Biology, University of Illinois at Urbana-Champaign, Urbana, IL, USA

References

Prof. Andrew Belmont, Department of Cell and Developmental Biology, University of Illinois at Urbana-Champaign, Urbana, IL, USA. asbel@illinois.edu

Prof. Masoud Soleimani, Faculty of Medical Sciences, Hematology department, Tarbiat Modares University, Tehran, Iran. soleim_m@modares.ac.ir